

Specification

Widely recommended medium for antibiotic and Sulfonamides susceptibility testing, according to the Kirby-Bauer and the Ericsson methods.

Presentation

20 Prepared Plates
90 mm
with: 21 ± 2 ml

Packaging Details

1 box with 2 packs of 10 plates/pack. Single cellophane..

Shelf Life

2,5 months

Storage

2-14 °C

Composition

Composition (g/l):

| | |
|---------------------------|---------|
| Peptone..... | 17.5 |
| Beef infusion solids..... | 2.00 |
| Starch..... | 1.50 |
| Agar..... | 17.0 |
| Sheep blood..... | 50.0 ml |

Description /Technique

Adjust suspensions of isolates to be tested to a density equivalent to a 0.5 MacFarland standard.

Spread the plate by spreading with a soaked swab each inoculum onto the surface evenly in three directions according to the Kirby-Bauer methodology.

After having allowed the agar surface to dry for 10 to 15 minutes, apply the antibiotic disks or the E-test strips to the surface.

Incubate the plates right side up at temperatures and during times according to the microorganism tested (Usually for 24 hours in 5-7% carbon dioxide enriched atmosphere)

Read plates after the recommended incubation period only if sufficient growth is seen and the inhibition zones or ellipses are clearly visible.

Read the MIC where the ellipse intersects the scale or the diameter of the different inhibition zones.

Each laboratory must evaluate the results according to their specifications, isolates tested, antibiotics applied and CLSI interpretative guidelines, EUCAST, or Manual E-Test.

(Be specially aware that incubation in CO₂-enriched atmospheres, hemolysis and pH decrease can affect the activity of some antibiotics).

Quality control

Physical/Chemical control

Color : Red

pH: 7.4 ± 0.2 at 25°C

Microbiological control

Spread with swab from 0.5 Mac Farland inoculum.

Aerobic / anaerobic acco. to microorganisms type. 35-37 °C, reading 18/24 h.

Microorganism

Streptococcus pneumoniae ATCC® 49619

Escherichia coli ATCC® 25922, WDCM 00013

Enterococcus faecalis ATCC® 29212, WDCM 00087

Ps. aeruginosa ATCC® 27853

Stph. aureus ATCC® 29213, WDCM 00131

Growth

Inhibition halo

Inhibition halo

Inhibition halo

Inhibition halo

Inhibition halo

Sterility Control

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

Bibliography

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